

IN THE CLAIMS

Please cancel claims 2, 5 and 32-37 without prejudice or disclaimer, and amend the claims as follows:

1. (Currently Amended) A high damage tolerant Al-Cu 2xxx-series alloy rolled product having a high toughness and an improved fatigue crack growth resistance, comprising the following composition (in weight percent):

Cu: 3.8 - 4.7

Mg: 1.0 - 1.6

Zr: 0.06 - 0.18

Mn: > 0.15 - 0.45 ~~> 0 - 0.50~~

Cr < 0.15

Fe: ≤ 0.15

Si: ≤ 0.15,

the balance essentially aluminum and incidental elements and impurities, wherein the alloy product comprises Mn-containing dispersoids and Zr-containing dispersoids, and wherein the alloy product is in a T39 or T351 [[T3]] temper.

2. (Cancelled)

3. (Original) Alloy product according to claim 1, wherein said alloy product is recrystallized to at least 75%.

4. (Original) Alloy product according to claim 1, wherein said alloy product is recrystallized to at least 80%.

5. (Cancelled)

6. (Original) Alloy product according to claim 1, wherein the amount (in weight %) of Mn is in a range of 0.20 to 0.45%.

7. (Original) Alloy product according to claim 1, wherein the amount (in weight %) of Mn is in a range of 0.25 to 0.30%.

8. (Original) Alloy product according to claim 1, wherein the amount (in weight %) of Cu is in a range of 4.0 to 4.7%.

9. (Original) Alloy product according to claim 1, wherein the amount (in weight %) of Cu is in a range of 4.0 to 4.4%.

10. (Original) Alloy product according to claim 1, wherein the amount (in weight %) of Cu is in a range of 4.1 to 4.3%.

11. (Original) Alloy product according to claim 1, wherein the amount (in weight %) of Mg is in a range of 1.0 to 1.4%.

12. (Original) Alloy product according to claim 1, wherein the amount (in weight %) of Mg is in a range of 1.1 to 1.3%.

13. (Original) Alloy product according to claim 1, wherein the amount (in weight %) of Fe is in a range of $\leq 0.10\%$.

14. (Original) Alloy product according to claim 1, wherein the amount (in weight %) of Si is in a range of $\leq 0.10\%$.

15. (Original) Alloy product according to claim 1, wherein the amount (in weight %) of Zr is in a range of 0.09 to 0.15%.

16. (Original) Alloy product according to claim 1, wherein the amount (in weight %) of Cr is in a range of 0.05 to 0.15%.

17. (Original) Alloy product according to claim 1, wherein the sum (in weight %) of Zr+Cr is in a range of < 0.20%.

18. (Original) Alloy product according to claim 1, wherein the sum (in weight %) of Zr+Cr is in a range of 0.10 to 0.13%.

19. (Original) Alloy product according to claim 1, wherein the alloy product is substantially Ag-free.

20. (Original) Alloy product according to claim 1, wherein said alloy further comprises one or more of the elements Zn, Hf, V, Sc, Ti or Li, the total amount less than 1.00 (in weight %).

21. (Original) Alloy product according to claim 1, having a microstructure wherein the grains have an average length to width aspect ratio of smaller than about 4 to 1.

22. (Original) Alloy product according to claim 21, having a microstructure wherein the grains have an average length to width aspect ratio of smaller than about 3 to 1.

23. (Original) Alloy product according to claim 21, having a microstructure wherein the grains have an average length to width aspect ratio of smaller than about 2 to 1.

24. (Original) Alloy product according to claim 1, wherein the alloy product has a fatigue crack growth rate of less than 0.001 mm/cycles at $\Delta K=20 \text{ MPa}\sqrt{\text{m}}$ when tested according

to ASTM-E647 on 80 mm wide M(T) panels at R=0.1 at constant load and at a frequency of 8 Hz.

25. (Original) Alloy product according to claim 24, wherein the alloy product has a fatigue crack growth rate of less than 0.01 mm/cycles at $\Delta K=40 \text{ MPa}\sqrt{\text{m}}$ when tested according to ASTM-E647 on 80 mm wide M(T) panels at R=0.1 at constant load and at a frequency of 8 Hz.

26. (Currently Amended) Alloy product according to claim 1, wherein the alloy product has been manufactured by a process comprising the steps of casting, hot rolling, optionally cold rolling, solution heat treating, quenching the solution heat treated product, stretching the quenched product, naturally ageing to product to achieve a T39 or T351 [[T3]] temper condition.

27. (Original) Alloy product according to claim 1, wherein the alloy product has a thickness of in a range of 2.0 to 12 mm.

28. (Original) Alloy product according to claim 1, wherein the alloy product has a thickness of in a range of 25 to 50 mm.

29. (Original) Alloy product according to claim 1, wherein the alloy product is processed into a fuselage sheet of an aircraft.

30. (Original) Alloy product according to claim 1, wherein the alloy product is processed into a lower-wing member of an aircraft.

31. (Original) Alloy product according to claim 1 consisting of, in weight %:

Cu 3.8 - 4.7

Mg 1.0 - 1.6

Zr 0.06 - 0.18

Mn >0.15 - 0.50

Cr < 0.15

Fe ≤ 0.15

Si ≤ 0.15,

the balance essentially aluminum and incidental elements and impurities.

32-37. (Cancelled).

38. (New) Alloy product according to claim 1, wherein the amount (in weight %) of Zr is in a range of 0.14 to 0.18%.

39. (New) Alloy product according to claim 1, wherein the amount (in weight %) of Mn is in a range of 0.40 to 0.45%

40. (New) Alloy product according to claim 1, wherein the amount (in weight %) of Cu is in a range of 3.8 to 4.4%

41. (New) Alloy product according to claim 1, wherein said alloy product is in a T351 temper.

42. (New) A high damage tolerant Al-Cu 2xxx-series alloy rolled product having a high toughness and an improved fatigue crack growth resistance, consisting essentially of the following composition (in weight percent):

Cu: 3.8 - 4.7

Mg: 1.0 - 1.6

Zr: 0.06 - 0.18

Mn: > 0.15 - 0.45

Cr < 0.15

Fe: ≤ 0.15

Si: ≤ 0.15,

the balance essentially aluminum and incidental elements and impurities, wherein the alloy product comprises Mn-containing dispersoids and Zr-containing dispersoids, and wherein the alloy product is in a T39 or T351 temper.

43. (New) Alloy product according to claim 42, wherein said alloy product is in a T351 temper.